	Application No.	ation No. Applicant(s)	
Notice of Allowability	10/713,241	ALLAN ET AL.	
	Examiner	Art Unit	1
	PHAN T.H. PALMER	2874	pr
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in the or other appropriate communic GHTS. This application is subj	is application. If not include cation will be mailed in due c	d course. THIS
1. This communication is responsive to <u>07/15/2004</u> .			
2. The allowed claim(s) is/are 1-17.			
3. 🔀 The drawings filed on <u>13 November 2003</u> are accepted by the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the property of	con's Patent Drawing Review (. s Amendment / Comment or in .84(c)) should be written on the c	the Office action of	back) of
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 🖂 Nation of Inform	mal Datant Application (DTC	150)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sum		-132)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Ma 8), 7. ⊠ Examiner's Am	il Date nendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8 ⊠ Examiner's Sta	atement of Reasons for Allov	wance
of Biological Material	9. Other	ALC: TO THE STATE OF THE STATE	1141100

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EXAMINER'S AMENDMENT Amost / PTHP

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney Svetlana Z. Short on 08/09/2004.

The application has been amended as follows:

- In claim 10, on line 1, changed "according to any of the preceding claims" to –according to claim 1--.

Also in claim 10, changed "6.times.N" to -6 times N--.

- In claim 15, on line 1, changed "The photonic crystal" to –A photonic crystal--.

REASON FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: the claims are allowable over prior art of record, because none of the references in alone or in combination discloses:

A photonic band-gap crystal optical waveguide comprising:

a photonic band-gap crystal having a pitch and; a defect, including a core, said defect having a boundary that encloses a plane cross section and a length

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dimension perpendicular to the plane cross section, the defect boundary including a plurality of protrusions, as discloses in claims 1 and 15.

The structure of the optical waveguide as discloses in claims 1 and 15, is critically, since the waveguide having a core with very low refractive index, therefore the photonic band gap crystal optical waveguide has the low attenuation and small non-linear coefficient.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONTACT INFORMATION

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHAN T.H. PALMER whose telephone number is (571) 272-2354. The examiner can normally be reached on 4/4 OFF MONDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RODNEY B. BOVERNICK can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PTHP 08/09/04

PHAN T. H, PALMER PRIMARY EXAMINER

Chart. H. Palmer